

Table I. IMS RbR Text and Attribute Modifications.

RBR_id	req_key	Rel	Req_Category	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpretation text	clarification
IMS-0050#B	8543	B0	mission essential	SDP S	functional	test	un-verified	test	un-verified	The IMS shall provide the capability for users to define and modify user profile information, to include at a minimum: a. User electronic address b. Data distribution media c. Data distribution address d. User expertise level e. Default query parameters f. Terminal characteristics g. Technical specialty.	'Define' means input values to user profile information.	<u>User Profiles do not contain items d, e & f of the L3.</u>
IMS-0160#B	8828	B0B1	mission fulfillment	SDP S	functional	demo	un-verified	demo	un-verified	The IMS shall provide levels of user interaction support to include at a minimum: a. Expert (e.g., quick command driven direct information input) b. Intermediate (e.g., some prompting and automatically supplied help) c. Novice (e.g., extensive prompting and help facilities)	Levels of user interaction are set with options in the user profile by the user.	
IMS-0190#B	4998	B0B1	mission essential	SDP S	functional	demo	un-verified	demo	un-verified	The IMS shall provide the capability to save information selected		<u>A user session is defined as a user logon to logoff time</u>

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										in prior metadata searches for use in subsequent IMS service requests, either in the current session or in future sessions.		<u>period.</u>
IMS-0280#B	8177	B0	mission critical	SDP S	interfac e	demo	un-verifi ed	demo	un-verifie d	The IMS shall maintain DAR generation information, for example, instrument information received from the ICC and spacecraft information received from the EOC, in a data base which will be accessible during the DAR planning and submittal process.	B: ASTER GDS interfaces to EDC DAAC only.	<u>DAR generation information will be in accordance with the ASTER GDS ICD. Information received from the EOC will be spacecraft schedules and timelines.</u>
IMS-0350#B	5074	B0B1	mission critical	SDP S	security	inspec tion	un-verifi ed	inspect ion	un-verifie d	The IMS shall provide the capability for authorized personnel to add, delete, or modify ECS metadata entries, individually or in groups.		<u>ECS Maintenance and Operations (M & O) will document the process to screen user supplied comments.</u>
IMS-0360#B	5084	B0	mission essential	SDP S	interfac e	demo	un-verifi ed	demo	un-verifie d	The IMS shall maintain or provide access to an on-line Earth Science master directory of information, which may be geographically distributed, that		<u>ECS provides access to the Global Change Master Directory (GCMD) via File Transfer Protocol (FTP).</u>

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										describes whole data sets in the Earth science disciplines.		
IMS-0390#B	5087	B0	mission essential	SDP S	interface	demo	un-verified	demo	un-verified	The IMS shall maintain or provide access to directory entries for all data sets accessible through the IMS search and order service.		<u>Directory entries are displayed to users as advertisements for the data (sets/collections) they represent.</u>
IMS-0500#B	8575	B0B1	mission essential	SDP S	functional	demo	un-verified	demo	un-verified	The IMS shall provide access to information to include at a minimum: a. Metadata b. Spacecraft housekeeping and ancillary data information c. Engineering data d. EOC historical data e. Data acquisition plans and schedules f. Processing schedules g. Documentation h. ESDIS Project Policies and Procedures obtained from SMC data base i. Science Processing Library software j. Documentation on data format and metadata standards	<u>Items b, c, and d are archived as ancillary data in SDPS. Ancillary data is provided by FOS</u> <u>Inventory metadata includes QA and summary statistics.</u>	<u>The terms plans and schedules are the same. Candidate plans are provided through document server, to DADS from PGS.</u>

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IMS-0550#B	5142	B0B1	mission fulfillment	SDP S	functional	demo	un-verified	demo	un-verified	The IMS shall allow a user to locate and identify desired data without detailed knowledge of the ECSs ECS's: a. Architecture b. Data Base management system c. Data Base structure d. Query languages e. Data formats	<u>Data Searches are dependent upon users that interact with GUIs using terms that are defined in the ECS data dictionary.</u>	
IMS-0560#B	5157	B0B1	mission fulfillment	SDP S	functional	demo	un-verified	demo	un-verified	The IMS shall decompose complex data base search requests into executable data base queries in a manner which is transparent to the user.	<u>Data Searches are dependent upon users that interact with GUIs using terms that are defined in the ECS data dictionary.</u>	
IMS-0860#B	8402	B0B1	mission essential	SDP S	interface	demo	un-verified	demo	un-verified	The IMS shall provide an interface to ADC and ODC data systems and archives that produce, process, and/or maintain Earth science data sets and that have agreed to make the information and services available to ECS.	B: NOAA, CIESIN (Consortium for International Earth Science Information Network).	ODCs will not be supported (information will not be sent to or received from ODCs) for Release B.0.
IMS-0910#B	5244	B0	mission essential	SDP S	functional	test	un-verified	test	un-verified	The IMS shall provide the capability to receive the metadata from the DADS,	B: ASTER GDS interfaces to EDC DAAC only.	

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										when IP data has been ingested into the EOSDIS archives.		
IMS-0920#B	5252	B0B1	mission essential	SDP S	functional	test	un-verified	test	un-verified	The IMS shall provide the capability for users to construct and submit standing orders and one-time requests for processing of ECS data by pre-existing processes, which shall contain the following information at a minimum: a. Requester identification b. Algorithm input requirements c. Text description of need for processing d. Level 0-4 data set/subset e. Required time of generation f. Requested priority for product processing g. Resulting product type h. Processing parameters		<u>A Production Request contains the requester identification, algorithm input requirements, text description of need for processing, Level 0-4 data set/subset, required time of generation, requested priority for product processing, resulting product type, and processing parameters.</u>
IMS-1010#B	8864	B1	mission essential	SDP S	functional	test	un-verified	test	un-verified	The IMS shall accept from the PGS a processing status message to confirm or	Interaction with user for processing status messages done	

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										reject a processing order, which shall contain the following information at a minimum: a. Requester identification b. Request identification c. Request status d. If rejection, then the reason for the rejection e. If delayed longer than latest completion time specified by user, adjusted start and completion times.	by the Product Status Dialog.	
IMS-1100#B	5299	B0	mission essential	SDP S	interface	test	un-verified	test	un-verified	The IMS shall accept from the EOC the current data acquisition schedules and plans and make the data acquisition schedules and plans accessible to authorized users on request.		<u>The terms plans and schedules are the same.</u>
IMS-1180#B	5314	B0	mission critical	SDP S	functional	test	un-verified	test	un-verified	The IMS shall validate that user specified instrument settings are within the range of acceptable values.		
IMS-1440#B	5354	B0	mission essential	SDP S	security	demo	un-verified	demo	un-verified	The Virtual IMS Information		

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							ed		d	Management software shall provide local SCF data base administration utilities for, at a minimum: a. Modifying the data base schema b. Performance monitoring c. Administration of user access control d. Data base backup e. Data base recovery		
IMS-1665#B	5382	B0B1	mission fulfillment	SDP S	interface	test	un-verified	test	un-verified	The IMS shall provide to the SMC, IMS services usage by each user (to include at a minimum user name, IMS service identification, date/time stamp, time expended, facilities used) for later reporting and determination of access patterns.		